

### Abstract

A microwave coupler is constructed in a multilayer, vertically-connected stripline architecture provided in the form of a microwave integrated circuit that has a homogeneous, multilayer structure. Such a coupler has a vertically-connected stripline structure in which multiple sets of stripline layers are separated by interstitial groundplanes, and wherein more than one set of layers has a segment of coupled stripline.. A typical implementation operates at frequencies from approximately 0.5 to 6 GHz, although other frequencies are achievable.

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